A marked up version showing amendments to any claims being changed is provided in one or more accompanying pages separate from this amendment in accordance with 37 C.F.R. § 1.121(c)(1)(ii). Any claim not accompanied by a marked up version has not been changed relative to the immediate prior version, except that marked up versions are not being supplied for any canceled claim.

CLAIMS

- 61. A sputtering target comprising copper, for med by a process including casting, and having a target surface with the following characteristics:
 - a) substantially homogenous composition at any location;
 - b) substantial absence of pores, voids, inclusions and other casting defects;
 - c) substantial absence of precipitates;
 - d) grain size less than about 1μ m; and
 - e) substantially uniform structure and texture at any location.
- 62. The sputtering target of claim 1 further comprising one or more of AI, Au, and Ag.
 - 63.. The sputtering target of claim 6/2 comprising Al.
 - 64. The sputtering target of claim 62 comprising Au.
 - 65. The sputtering target of claim 62 comprising Ag.

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- 66. A sputtering target formed from a cast copper material and comprising: a substantial absence of pores, voids and inclusions; and an average grain size of less than about 1 μm.
- 67. The sputtering target of claim 66 wherein the copper material comprises pure copper.
 - 68. The sputtering target of claim 66 comprising one or more of Al, Au, and Ag.
- 69. The sputtering target of claim 66 wherein the copper material comprises a copper alloy having one or more of the elements selected from the group consisting of Al, Au, and Ag.
- 70. The sputtering target of claim 66 further comprising a substantial absence of precipitates.
- 71. The sputtering target of claim 66 further comprising a substantially uniform structure and texture at any location.
- 72. The sputtering target of claim 66 further comprising a substantially homogeneous composition at any location.